

3. Method or apparatus according to ~~one or more of the preceding claims~~ claim 2, characterized in that the temperature is the same on both sides during the temperature-influencing action.
4. Method or apparatus according to ~~one or more of the preceding claims~~ claim 3, characterized in that the temperature is different on the two sides during the temperature-influencing action.
5. Method or apparatus according to ~~one or more of the preceding claims~~ claim 4, characterized in that the gases are hydrogen and nitrogen or helium and argon.
6. Method or apparatus according to ~~one or more of the preceding claims~~ claim 5, characterized by a continuous flow of gas into a gap space (4, 5) between temperature-influencing device (2, 3) and substrate (1).
7. Method or apparatus according to ~~one or more of the preceding claims~~ claim 6, characterized in that the gas flow is controlled by means of mass flow controllers (8, 9; 8', 9').
8. Method or apparatus according to ~~one or more of the preceding claims~~ claim 7, characterized in that the substrate (1) is mounted floating freely on a gas cushion formed by the gas stream associated with the underside of the substrate.
9. Method or apparatus according to ~~one or more of the preceding claims~~ claim 8, characterized in that the substrate (1) is driven in rotation, floating freely, by the gas stream which forms the heat-conducting medium.
10. Method or apparatus according to ~~one or more of the preceding claims~~ claim 9, characterized in that the temperature control involves dissipation of heat or supply of heat.

11. Method or apparatus according to ~~one or more of the preceding claims~~ claim 10, characterized in that the gas composition or gas pressure changes during the heat exchange over the course of time.

12. Method or apparatus according to ~~one or more of the preceding claims~~ claim 11, characterized in that the mass flow of the thermally conducting medium into the gap spaces (4, 5) is so slight that the quantity of heat which is supplied or dissipated via the gas mass flow is significantly less than the heat which is dissipated or supplied via heat conduction.